

Laue class $C_{2h} - 2/m$

6. SCANNING TABLES

Monoclinic

 No. 5 C_2
 C_2^3
 $\mathcal{G} = I121$ UNIQUE AXIS b

CELL CHOICE 3

 $\mathcal{G} = I112$ UNIQUE AXIS c

Orientation orbit (hkl)	Conventional basis of the scanning group \mathbf{a}' \mathbf{b}' \mathbf{d}	Scanning group \mathcal{H}	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS b (010)	\mathbf{c} \mathbf{a} \mathbf{b}	$I112$	$[s\mathbf{d}, (s + \frac{1}{2})\mathbf{d}]$	$p112$	L03
UNIQUE AXIS c (001)	\mathbf{a} \mathbf{b} \mathbf{c}				
UNIQUE AXIS b ($n0m$)	\mathbf{b} $n\mathbf{c} - m\mathbf{a}$ $p\mathbf{c} + q\mathbf{a}$	$I211$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$ $[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p211$ $p2_111$ ($\mathbf{b}'/4$) $p1$	L08 L09 L01
UNIQUE AXIS c ($mn0$)	\mathbf{c} $n\mathbf{a} - m\mathbf{b}$ $p\mathbf{a} + q\mathbf{b}$				
	n odd m even p even q odd or n even m odd p odd q even p odd q odd				
	n odd m odd				
		$B211$	$[0\mathbf{d}, \frac{1}{2}\mathbf{d}]$ $[\frac{1}{4}\mathbf{d}, \frac{3}{4}\mathbf{d}]$ $[\pm s\mathbf{d}, (\pm s + \frac{1}{2})\mathbf{d}]$	$p211$ $p2_111$ $p1$	L08 L09 L01
		$C211$	$0\mathbf{d}, \frac{1}{2}\mathbf{d}$ $[s\mathbf{d}, -s\mathbf{d}]$	$c211$ $\widehat{p}1$	L10 L01

 Geometric class $C_s - 11m$

 No. 6 Pm
 C_s^1
 $\mathcal{G} = P1m1$ UNIQUE AXIS b
 $\mathcal{G} = P11m$ UNIQUE AXIS c

Orientation orbit (hkl)	Conventional basis of the scanning group \mathbf{a}' \mathbf{b}' \mathbf{d}	Scanning group \mathcal{H}	Linear orbit $s\mathbf{d}$	Sectional layer group $\mathcal{L}(s\mathbf{d})$	
UNIQUE AXIS b (010)	\mathbf{c} \mathbf{a} \mathbf{b}	$P11m$	$0\mathbf{d}, \frac{1}{2}\mathbf{d}$ $[s\mathbf{d}, -s\mathbf{d}]$	$p11m$ $p1$	L04 L01
UNIQUE AXIS c (001)	\mathbf{a} \mathbf{b} \mathbf{c}				
UNIQUE AXIS b ($n0m$)	\mathbf{b} $n\mathbf{c} - m\mathbf{a}$ $p\mathbf{c} + q\mathbf{a}$	$Pm11$	$s\mathbf{d}$	$pm11$	L11
UNIQUE AXIS c ($mn0$)	\mathbf{c} $n\mathbf{a} - m\mathbf{b}$ $p\mathbf{a} + q\mathbf{b}$				